

Engine & Cooling

Fuel

Ignition

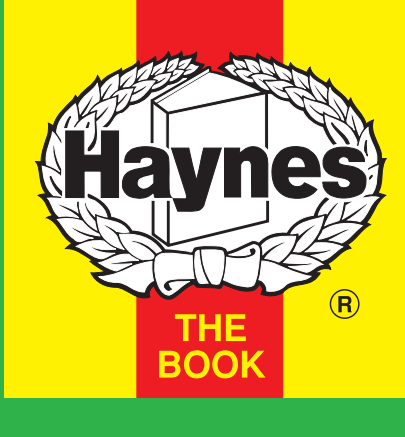
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
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Engine and cooling systemVanette 2.0 Wide Body (C22)1987 to 1994

Type	Z20S SOHC	
Capacity (cm ³) / number of cylinders	1952 / 4	
Compression ratio / pressure	bar	8.5 / ≥9.0
Oil pressure	bar	[2.9 to 3.9]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.30 H
Valve clearance - exhaust	mm	0.30 H
Firing order	1-3-4-2	
No 1 cylinder position	F	
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.78 to 1.00

Fuel systemVanette 2.0 Wide Body (C22)1987 to 1994

Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	2600±100
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	Nikki	
Type / ref	21A304-731	
Main jet / needle	103, 160	
Injection pressure	bar	—
Pump pressure	bar	0.15
Octane rating	RON	90[E 91 RON]

Ignition systemVanette 2.0 Wide Body (C22)1987 to 1994

Type	Contact breaker - CIS	
Ignition coil	Hanshin HP5-13E25	
Primary resistance	ohms	1.4 to 1.7
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	Mitsubishi	
Points gap (air gap)	mm	0.45 to 0.55
Dwell angle	° (%)	49 to 55
Condenser capacity	µF	0.20 to 0.24
Rotation	Anticlockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	6±2 BTDC @ 700±50
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	15±5 BTDC @ 700±50
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 to 1 @ 1240 to 1500
	° Crankshaft @ rpm	11 @ 2300
	° Crankshaft @ rpm	19 to 23 @ 4600
Vacuum range check	mbar	133 to 307 ¹
Maximum vacuum advance	° Crankshaft	15 to 17. 90 ▶: 11
Spark plugs	NGK/Champion	
Type	BPR5ES / RN9YC	
Electrode gap	mm	0.80 to 0.90

Electrical systemVanette 2.0 Wide Body (C22)1987 to 1994

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm	14.1 to 14.7 / 50, 60 / 2500	
Starter motor current / voltage - cranking	A / V	100 / 11.5 (no load)
- locked	A / V	—

Running gearVanette 2.0 Wide Body (C22)1987 to 1994

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	—
Estate / Van	Size	195/70x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	3.0 / 3.0

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	-1.0 to +1.0 ²
Camber	-15' to +45' ³	
Castor	+1°5' to 2°5' ⁴	
King pin inclination	+9° to 10° ⁵	

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	—
Camber	—	

Torque wrench settingsVanette 2.0 Wide Body (C22)1987 to 1994

Cylinder head - stage 1	Nm	29
- stage 2	Nm	78
Cylinder head - stage 3	Nm	Loosen, then 29
- stage 4	Nm	+ 90 to 95°
Big-end bearings	Nm	37 to 45
Main bearings	Nm	44 to 54
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	137 to 157
Front hubs	Nm	265 to 353
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

CapacitiesVanette 2.0 Wide Body (C22)1987 to 1994

Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	—
Final drive	litres	1.0. 90 ▶: 1.3
Cooling system	litres	9.0
Fuel tank	litres	55

Notes and Illustrations

¹90 ▶: 133 to 253

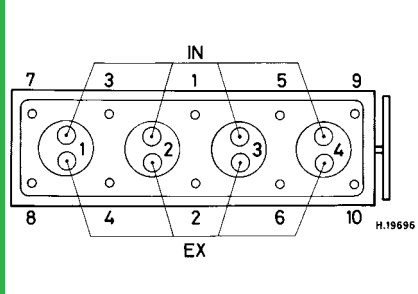
²90 ▶: -1.0 to +3.0

³90 ▶: -30' to +1°

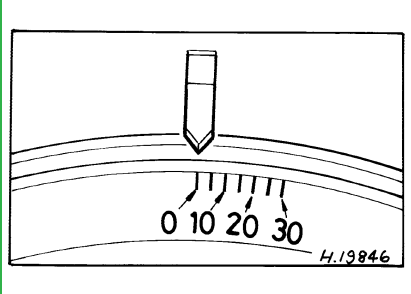
⁴90 ▶: +50' to 2°20'

⁵90 ▶: +8°45' to 10°15'

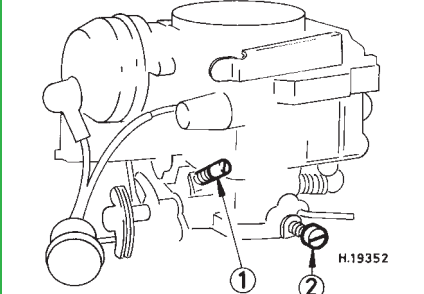
1: Idle speed 2: CO / Mixture



1952 cm³



1952 cm³



Nikki